

k-Nearest Neighbors

Problem

Build a k-Nearest Neighbors classifier.

For each [dataset](#) find the optimal combination of parameters for kNN according to the F-score calculated by LOO-CV.

As parameters you should use:

- h - the width of Parzen window
- k - the number of considered neighbors (if h is not fixed)
- Distance function
- Kernel function

For the found combination of a distance and kernel function plot F-score dependence on h and k .